

## SEQUENCE LISTING

<110> Hepler, William T.  
 Jiang, Yuqiu  
 Pyle, Ruth A.  
 Xu, Jiangchun

<120> COMPOSITIONS AND METHODS FOR THE THERAPY  
 AND DIAGNOSIS OF COLON CANCER

<130> 210121.550

<140> US

<141> 2001-08-07

<160> 85

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> 40

<223> Xaa = Any Amino Acid

<400> 1

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Gly	Ser	Ala	Gln	Arg	Val	Glu	Tyr	Lys	Lys	Leu	Asn	Cys	Val	Asn	Thr
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Trp	Lys	Thr	Thr	Val	Leu	Arg	Xaa	Pro	Ser	His					
		35					40								

<210> 2

<211> 87

<212> PRT

<213> Homo sapiens

<400> 2

Met	Ala	Ile	Ser	Arg	Gln	Ser	Ile	Tyr	Thr	Thr	Gly	Gln	Arg	Leu	Gly
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Gly	Thr	Ser	Pro	Arg	Gln	Met	Met	Ala	Pro	His	Pro	Leu	Cys	Phe	Leu
			20					25				30			
Thr	Thr	Gln	Val	Thr	Tyr	Val	Trp	Leu	Pro	Val	Arg	Lys	Leu	Pro	Phe
		35					40				45				
Asn	Phe	Leu	Leu	Ser	Pro	Phe	Met	Ala	Gln	Val	Gly	Gly	Met	Met	Pro

50                      55                      60  
 Leu Leu Gln Thr Arg Arg Gln Gly Ser Phe Pro Gly Leu Ser Ser Ser  
 65                      70                      75                      80  
 Ser Trp Val Ala Leu Ser Pro  
                     85

<210> 3  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> 6, 24, 29, 47  
 <223> Xaa = Any Amino Acid

<400> 3  
 Met Ala Cys Arg Arg Xaa Gly Ser Cys Ile Cys Ile Tyr Trp Val His  
   1                    5                    10                    15  
 Ser Gln Asn Lys Gly Asp His Xaa Tyr Ile Gly Lys Xaa Asn Leu Asp  
                     20                    25                    30  
 Pro Ala Arg Ala Gly Pro Leu Glu Arg Ala Lys Phe Cys Arg Xaa Pro  
                     35                    40                    45  
 Ile

<210> 4  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> 67, 78  
 <223> Xaa = Any Amino Acid

<400> 4  
 Met Ala Ser Arg Asp Ser Leu Tyr Leu Pro Gly Arg Pro Leu Glu Arg  
   1                    5                    10                    15  
 Ala Asn Ser Ala Asp Ile His His Thr Gly Gly Arg Ser Ser Met His  
                     20                    25                    30  
 Leu Glu Gly Pro Ile Arg Pro Ile Val Ser Arg Ile Thr Ile His Trp  
                     35                    40                    45  
 Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr Leu Arg Tyr Pro Asn  
                     50                    55                    60  
 Phe Asn Xaa Leu Ala Ala Thr Ser Pro Leu Phe Ala Gln Xaa Gly  
 65                      70                      75

<210> 5  
 <211> 58  
 <212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> 6, 29, 47

<223> Xaa = Any Amino Acid

<400> 5

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Met Asp Ala Pro Cys Xaa Arg Arg Ile Lys Arg Gly Gly Cys Gly Gly
 1          5          10          15
Tyr Ala Gln Arg Asp Arg Tyr Thr Cys Gln Arg Pro Xaa Ala Arg Ser
          20          25          30
Phe Arg Phe Leu Pro Leu Pro Phe Ser Pro Arg Phe Gly Gly Xaa Ser
          35          40          45
Pro Val Lys Leu Leu Lys Ser Gly Gly Leu
          50          55
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<210> 6

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> 40

<223> Xaa = Any Amino Acid

<400> 6

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Met Glu Ala Glu Asp Ser Glu Ser Leu Ser Pro Lys Met Pro Gln Pro
 1          5          10          15
Gly Ser Ala Gln Arg Val Glu Tyr Lys Lys Leu Asn Cys Val Asn Thr
          20          25          30
Trp Lys Thr Thr Val Leu Arg Xaa Pro Ser His
          35          40
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<210> 7

<211> 39

<212> PRT

<213> Homo sapiens

<220>

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<222> 2, 13, 15, 17, 23, 32

<223> Xaa = Any Amino Acid

<400> 7

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Met Xaa Ile Pro Leu His Ser Ile Pro Phe His Cys Xaa Pro Xaa Ala
 1          5          10          15
Xaa His Tyr Ile Arg Ile Xaa Ser Ile Gln Leu Pro Tyr Ser Pro Xaa
          20          25          30
His Ser Ile Pro Phe Gly Val
          35
```

<210> 8  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 8  
 Met Phe Gly Glu Ile Pro Met Glu Lys Arg Glu Thr Cys Arg Arg Thr  
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 Ser Asn Lys Val Asn Val His Ala Gln Gly Leu Leu Lys Phe Gln Cys  
           20                  25                  30  
 Val Asn Phe Leu Leu Ala Tyr Thr Lys Ile Lys  
       35                  40

<210> 9  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<400> 9  
 Met Pro Thr Gly Ser Tyr Trp Val Ser Trp Thr Thr Ser Phe Arg Thr  
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 Arg Thr Ala Ser Ser Ser Ser Pro Leu Cys Thr Ala Ala Glu Gly Pro  
           20                  25                  30  
 Ser Leu Gly Leu Gly Thr Leu Arg Gly Glu Asn Glu Ala Ile Arg His  
       35                  40                  45  
 Pro Leu Gly Pro Cys Phe Gln Val Ser Leu Ser Pro Leu Pro Ala Phe  
       50                  55                  60  
 Phe Pro Ala Leu Ser Pro Lys Leu Pro Pro Gly Arg Glu Lys Arg Pro  
   65                  70                  75                  80  
 Gly Ala Lys Asn Glu Pro Phe Ser Ser Thr  
           85                  90

<210> 10  
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 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> 36, 42, 48  
 <223> Xaa = Any Amino Acid

<400> 10  
 Met Val Arg Pro Gly Lys Asp Leu Pro Pro Leu His Phe Leu Phe Ser  
   1                  5                  10                  15  
 Leu Leu Leu Leu Ile Leu Lys Leu Cys Leu Gln Gln Arg Gly Arg Gly  
           20                  25                  30  
 Ser Cys Arg Xaa Ile Pro Gly Pro Gly Xaa Glu Met Pro Asn Leu Xaa  
       35                  40                  45  
 Tyr Leu Thr Glu Gly Leu

50

<210> 11  
 <211> 566  
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 <213> Homo sapiens

<400> 11  
 aattcgccct tgagcgggc cccgggcagg ttaacaaccc ccctcctaact actaactacc 60  
 tgactcctac ccctcacaat catggcaagc caacgccact tatccagtga accactatca 120  
 cgaaaaaac tctacctctc tataactaat tccctacaaa tctccttaat tataacattc 180  
 acagccacag aactaatcat attttatatc ttcttogaaa ccacacttat cccacacttg 240  
 gctatcatca cccgatgagg caaccagcca gaacgcctga acgcaggcac atacttccta 300  
 ttctacaccc tagtaggctc ctttccctta ctcatgcac taattttacac tcacaacacc 360  
 ctaggtcac taaacattct actactcact ctactgccc aagaactatc aaactcctga 420  
 gccacaact taatatgact agcttacaca atagctttta tagtaaagat acctctttac 480  
 ggactccact tatgactccc taaagcccat gtcgaagccc ccacgcctgg gtcaatagta 540  
 cctcgggcgc gaccacgcta agggcg 566

<210> 12  
 <211> 517  
 <212> DNA  
 <213> Homo sapiens

<400> 12  
 aattcgccct ttcgagcggc cgccggggca ggtactttta tatttatgtt gttgttttct 60  
 tgttttcttt ttactcactg cagtatgagg aacaaatcac aaacacttac tttggagaaa 120  
 cagagaccat agtgtagatt ttacaaaatc actttttaaa atctctgtat tgtgctcctc 180  
 aaatacctag agccagtctt tgcataaaat atcacagctt tatctataac cttaaaattc 240  
 tgcagcagcc taaagatatg gataagatat accaccactt gotattctga aatatactta 300  
 ttaccatata caacctaatg atagtatcta aaaaattctt tcttccatag gaagtctctg 360  
 acaagctgtt attcatttcc ttgacgttaa aagaatctgg ggccaacatt tgtattttat 420  
 cagaaaaaaa taaaaaaaaa gtttacctac catgttcata ttaagaacaa tgtctatata 480  
 agtcagttgt acctcgggcg cgaccacgct aagggcg 517

<210> 13  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<400> 13  
 aattcgccct taagcgtggt cgcgcccgag gtacatttat aatcttgtga ctttaaagtc 60  
 tgttttcaga tacagtatgt aaatacttgt aaaaaattt gtataatttt gtgataatgt 120  
 agtttcccaa aaaaattatt tagaaggcat tatgttatta gtaaagtaga gcaactgtata 180  
 gaactgttcc tattttctgc acttgccatt ccagctgcct ccactgtcca taccacctc 240  
 attcatcctg tcacagaagg caggaaaact gggaacttta ccaaagtagc actcagcctg 300  
 agaggcctgt ataatacatg ttttcaaact aaattcactt aaaaattaaa aagcagaatt 360  
 gaatatttta agcagcctca gtacctgccc gggcgggcgc tcgaaagggc g 411

<210> 14  
 <211> 387  
 <212> DNA  
 <213> Homo sapiens

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<400> 14
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cagcaggcac acaacagagg cagttccaga tttcaactgc tcatcagatg gcgggaagat 120
gaagacagat ggtgcagcca cagttcgttt gatctccacc ttggtccctc tgccgaaagt 180
gagaggaagt tgcagacctg catgcaataa taatgtccaa cctcctcagc ctccaccccg 240
ctgatttcca gtgtgaagtc tgtgcctgac ccgctgccac tgaacctgtc tgggaccccg 300
ggggcccgat tagagcccaa atagatcagg agctgtggag actgccctgg cttctgcagg 360
tacctgcccg ggcggccgct aagggcg

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<210> 15

<211> 524

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 38, 70

<223> n = A,T,C or G

<400> 15

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aattcgccct tcgagcggcc gcccgggcag gtactttnot agatgacata tcgagtcaac 60
atgaagccgn agctgaaatg aatgattcag gatattaatg agaaattctc acaaattgata 120
tgcatttagg aaatgatttt gctttcctta aatagttcga aggcttgaaa ataaactttt 180
tttttgcatt tcttttagaa tgtttggtca ttaacaactt ttaaccttat cttcctcttc 240
tccttagccc ttaacagacc aagtccattc tatttgaaa taacaagaac ttgatcagat 300
tattaaatct tggaaccctc atttttacct tataaagtgt taagtttcac gtgcatattc 360
tcttacaaat gtagtataaa tgttatggat agatataagg aaatattggc atagtatagg 420
taattagtga aaagacacaa cttcacaaaa cacaataaaa gataaacatg aaactataac 480
actacttaaa aaatattacc tcggccgcga ccacgctaag ggcg

```

<210> 16

<211> 373

<212> DNA

<213> Homo sapiens

<400> 16

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aattcgccct ttgagggcgg cccggggcagg tacacacaact caggcttcag atcttggtga 60
aagctgcgat atcgacactc tgcacgtgct cctcaaaactt ggtgatctcc tcctccagca 120
agtctgtccc caccttgctg tcctccacca cacactgaat ctgtagcttc cggataccgt 180
agcccacggg caccagcttg gaagccccc agaccagccc gtccagctgg atagagcgca 240
cacaggcttc cagctggggc atgtccgtct catcatocca aggcttgaca tccagcagga 300
tgaggactt ggccaccagt gcaggcttct tggccttctt ctccgcgtac ctcggccgcg 360
accacgaagg gcg

```

<210> 17

<211> 472

<212> DNA

<213> Homo sapiens

<400> 17

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aattcgccct ttcgagcggc cgcccgggca ggtacccctt ccccatctta acagccagtg 60
ctgcgtatgg ccacagcag acagtccatt tataccactg gacaaagatt gggaggaacc 120
agcccaagac agatgatggc tccacaccca ctgtgcttcc tgactactca agtgacctac 180

```

```

gtgtggcttc cagtcaggaa actaccattht aactthtctgc tcagcccttht catggctcag 240
gttggtggga tgatgccact gtcctaaacc cgaaggcaag ggagcttccc aggcctcagc 300
agcagttcct gggtggcact gtcccatga tctgaagcag acatgaaatt acaatacgt 360
tttattcact catctcaaga aagctggctg gcccagcct aaaaggcca taccataaaa 420
aaaaaaaaa aaaaaaaaag cttgtacctc ggccgcgacc acgctaaggg cg 472

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<210> 18

<211> 612

<212> DNA

<213> Homo sapiens

<400> 18

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aattcgccct tagcgtggtc gcggccgagg tactatgaac accagaacag aagagatttht 60
ttactattat gacacaaaca cagggaaga gggcaacta gacattgtaa tgcataagat 120
gcaggaaaaa gtgcagagca ttaactataa cctthttgac cagaaacttht atgtctataa 180
cgatggttac cttctgaatt atgatcttht tgtcttgag aagccccagt aagctgttht 240
ggagttaggg tgaaagagaa aatgtthgtt gaaaaaatag tcttctccac ttacttagat 300
atctgcaggg gtgtctaaaa gtgtgttcat thtgcagcaa tgtthagggt catagttcta 360
ccacactaga gatctaggac atthgtcttg atthggtag ttctctggg aatcatctgc 420
ctcttcaggc gcattthtga ataaagtcta tctagggtg gattgtcaga ggtctagggg 480
cactgtgggc ctagtgaagc ctactgtgag gaggtctcac tagaagcctt aaattaggaa 540
ttaaggaaact taaaactcag tatggcgtct agggattctt tgtacctgcc cgggcggccg 600
ctcgaaaggg cg 612

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<210> 19

<211> 547

<212> DNA

<213> Homo sapiens

<400> 19

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aattcgccct ttcgagcggc cgcccgggca ggtacaaaaa taaaatcctt ctcaaaaata 60
tctacgtgcc ggggtccatgt thttactctc ccatgcggtt ttgctgtatt gacagattag 120
ttgtthcatg atthctctc tctctctgat taaggcgtth atagaaaaaa gaactgaata 180
tatgaattcg gtcagcgtct tcttcttca gthtttcaag caccaagtat ttcaataaaa 240
agtctataat aacatcattht aaaaattctc cthcatthtag acagtgcagg tctcattgg 300
taacagagat gcctccctta gctggagggt gtggatatac tatcaacttht tctactgggc 360
caatgaagat ggtgtggttht tctccagtht cthcttcttc atcaaaaaac tgaaattctt 420
gtthgtctct aagthgtatt ttagattcaa atgatacagt thtaatttht thttccttht 480
gccacaact tctthtgatg ctctcttcat aggttcttht acctcgccg cgaccacgt 540
aagggcg 547

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<210> 20

<211> 395

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 71

<223> n = A,T,C or G

<400> 20

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aattcgccct tgagcggccg cccgggcagg tactgtaatt gagcatccg aatatggaga 60
agtaattcag ntacagggtg accaacgcaa gaacatatgc cagthctctg tagagattgg 120

```

```

actggctaag gacgatcagc tgaagggttca tggggttttaa gtgcttgtgg ctactgaag 180
cttaagtgag gatttccttg caatgagtag aatttccctt ctctcccttg tcacagggtt 240
aaaaacctca cagcttgtat aatgtaacca tttgggggtcc gcttttaact tggactagt 300
taactccttc atgcaataaa ctgaaaagag ccaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aagcttgtac ctcggccgag accacgctaa gggcg 395

```

```

<210> 21
<211> 283
<212> DNA
<213> Homo sapiens

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<220>
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<222> 39, 72, 111, 116, 259
<223> n = A,T,C or G

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<400> 21
aattcgccct ttcgagcggc cgcccgggca ggtactttna ggcttgtagg agggtaaaat 60
agagaccag tnaaattgta ataagcagtg cttgaattat ttggttccgg ntgtnttcta 120
ttagactatg gtgagctcag gtgattgata ctctgatgc gagtaatacg gatgtgttta 180
ggagtgggac ttctagggga tttagcgggg tgatgcctgt tgggggccag tgccctccta 240
attggggggg aggggctang ctggagtggg aaaaggctca gaa 283

```

```

<210> 22
<211> 414
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 39, 69, 71
<223> n = A,T,C or G

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```

<400> 22
aattcgccct ttcgagcggc cgcccgggca ggtacgatnt ctagtgatga gtttgcta 60
acaatgccng ncaggccacc tacggtgaaa agaaagatga atcctagggc tcagagcact 120
gcagcagatc atttcatatt gcttccgtgg agtgtggcga gtcagctaaa tactttgacg 180
ccggtgggga tagcgatgat tatggtagcg gaggtgaaat atgctcgtgt gtctacgtct 240
attcctactg taaatatatg gtgtgctcac acgataaacc ctaggaagcc aattgatatc 300
atagctcaga ccatacctat gtatccaaat acctcggcgg cgaccacgct aagggcgaat 360
tctgcagata tccatcacac tggcggccgg tcagagcatg catctagagg gccc 414

```

```

<210> 23
<211> 622
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 37, 67, 602
<223> n = A,T,C or G

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```

<400> 23
aattcgccct ttcgagcggc cgcccgggca ggtacanttt gaaaaattat atatatggg 60

```



```

gggaaangga atgaatatct gattcttttg aatgcttggtg gaaatctttg agatcgtgca 120
gggcataacca caaaatagcc tttagaacag atacccaatt ttacagttca taggacaaca 180
tcaaacatta gtaagtctaa ataagatgaa tagaattttt gttatgtaaa ttttgctaga 240
acagtctatt ttcttgcacc cctcaagtta acctottnaa aaaatgaatg tataatttct 300
accgaaagaa tatcagagag aatctctctg gcttatagtg ttaaaatatt gttcacaaat 360
cctgattagt taagtgcata cattatgaaa cttacagaat aaaacttatt atacatctct 420
ttcttaaatt aatatcttta cacattttca actggctccc caagtctgat aaggaaggat 480
taaaagaaaa aagaaatgta ttagttgggt ggccaaggag tttcctttgt aatggttgaga 540
gacttccgct ttctgaattt cgctggttct ctaaggtaaa agagttaaat agtacctcgg 600
cncgcgacca ccgctaaggg cg                                     622

```

<210> 24

<211> 665

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 69

<223> n = A,T,C or G

<400> 24

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aattcgccct tagcgtgggtc gcggccgagg tgggataccg cagcaacaca cacaagttct 60
ctttatcgnc aaaatcacgc caaataataa cgggacctat gcctgttttg tctctaactt 120
ggctactggc cgcaataatt ccatagtcaa gagcatcaca gtctctgcat ctggaacttc 180
tctgtgtctc tcagctgggg ccactgtcgg catcatgatt ggagtgctgg ttgggggtgc 240
tctgatatag cagccctggt gtagtttctt catttcagga agactgacag ttgttttgct 300
tcttccttaa agcatttgca acagctacag tctaaaattg cttctttacc aaggatattt 360
acagaaaaga ctctgaccag agatcgagac catcctagcc aacatcgtga aaccccatct 420
ctactaaaaa tacaaaaatg agctgggctt ggtggcgcgc acctgtagtc ccagttactc 480
gggaggctga ggcaggagaa tcgcttgaac ccgggagggtg gagattgcag tgagcccaga 540
tcgcaccact gcactccagt ctggcaacag agcaagactc catctcaaaa agaaaagaaa 600
agaagactct gacctgtacc tgcccgggcg gccgctcgaa gggcgaattc tgcagatata 660
catca                                     665

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<210> 25

<211> 354

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 24, 320

<223> n = A,T,C or G

<400> 25

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gtggctcgcg cggagggtggc atancctagc ctgtgaggaa cctagttagg aaagacaact 60
gacattttatt gaatatcatg cactagtccc ttacatatgt catattttta ttatagaaat 120
cagtagcaaa aagaatcttg gggattttcc atotgaactc cctggccatc ttatcccatc 180
cttgacttac cagaagattc atacactttt gagactccag tgagacgctg ttttcacccc 240
ttctctctcc tagcctctct cccaaaaagt aaaacacaat gctgaagaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa gcttgtacct gcccgggcgg ccgctcgaag ggcg                                     354

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<210> 26

<211> 616  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 313  
 <223> n = A,T,C or G

<400> 26  
 aattcgccct tagcgtgggc ggggccgagg tacatcttat agaacatatt tcataaaaact 60  
 gctccactgg aaacaactag atcaaaacag caaaccttcc atttaatatc cacaaagttg 120  
 gattatTTTT cttttttgaa gtagattcgc cacaatcaaa tttgaatata gagaattttg 180  
 aagtttaagc atcaaacaac aaagtaaaag tccccaaagt acaacaaaga tctaggcaag 240  
 tcttggtcct gtcccaactcc cccccaccc ctaatgaaac ttaaaaggta ttcccatttc 300  
 aattatggcc tgnatcattc ttggcagttt ggaaagagaa cttttggcct ccattggtta 360  
 ctcaacataa atgttgcata gaatttatat atttcaaaat tggcctaact tgtaaaaaag 420  
 gcaaaatgga agcatttccg atagagccct aaatgagtag tgccctgtga cttctctgta 480  
 tgacatcaca aggcgcgcaa gtgcctgttt ttctagaact aggagttggt gaggtttggg 540  
 taagtgtgga aaccatgcat aggattgggt tactaaatta aaaccttatt acgtacctgc 600  
 ccgggcgggc cgctcg 616

<210> 27  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 74, 97, 194  
 <223> n = A,T,C or G

<400> 27  
 aattcgccct tagcgtgggc ggggccgagg tacaaaattt ttatgtaagt ataaaataaa 60  
 taatatgagg ggtnaattaa taacaacaac acaacancgg caacaatatt aataataaca 120  
 agagctctcc cattggccca cggccttcc cagcttttc tcttctgctt cacacaactt 180  
 tgtgagatag ctgntttcat agctgggaaa actgaggccc 220

<210> 28  
 <211> 368  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 346, 357  
 <223> n = A,T,C or G

<400> 28  
 aattcgccct tagcgtgggc ggggccgagg tacacagcac attctcttaa gagaaaacag 60  
 gaatgaacat tctcagaaac attcacattg ctcatcaaat gtagctttac ccaaagtata 120  
 taggaaatgg caaaaaccta acctagctgg acattttata caagtaagtc aaagttcaaa 180  
 ggaatcatcc tatctttatt ctcaagaaatc caatgttgaa tatcacagtt cttctttaat 240  
 ggaagcagaa gattcagagt ccttgtctcc caaaatgcct cagccagggt cagcacagag 300

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agtggaatat aaaaagctta attgtgttaa tacatggaag acaacngttc tcaggcnacc 360
tagccaca                                           368

```

```

<210> 29
<211> 265
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 38, 39, 70, 72
<223> n = A,T,C or G

```

```

<400> 29
aattcgccct tagcgtggtc ggggccgagg tacaaacnnc ggatcttgtg tcagaaacac 60
atgttgagan tntccattc cttccagaat tttcagagat gaggtagacc cacctcaatc 120
atcctcagca tcagtttgtc aaattgccag gctcaatgac aagctctcct gccatctcca 180
agccactttt tcatagtacc gctctgtctt tggctgcagc actttaggca ctattctaag 240
tcctggagta tatcactctt gcttc                                           265

```

```

<210> 30
<211> 195
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 38, 39, 72, 179
<223> n = A,T,C or G

```

```

<400> 30
aattcgccct tagcgtggtc ggggccgagg tacacatnna gtttaaactg gttatgacaa 60
aagccttttag gngtgtttct tgaactataa agaaaacaaa ttttggcagt cttaagtat 120
atatagctta aaatataatt ttttagcattt ggcaccatat gtatgccatt atatttgant 180
ttgcattact gtttc                                           195

```

```

<210> 31
<211> 285
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 228, 255, 268
<223> n = A,T,C or G

```

```

<400> 31
aattcgccct tagcgtggtc ggggccgagg tactcacttt ttccaaatga tcttagtaat 60
tgcctagaaa tatctttctc ttacctgtta tttatcaatt tttcccagta tttttatagc 120
gaaaaaattg tattgaaaac acttagtatg cagttgataa gaggaatttg gtataattat 180
ggtaggtgat tattttttat actgtatgtg ccaaagcttt actactgngg aaagacaact 240
gttttaataa aaganttaca ttccaaanaa aaaaaaaaaa aaaaaa                    285

```

```

<210> 32

```

<211> 609  
 <212> DNA  
 <213> Homo sapiens

<400> 32  
 aattcgccct tagcgtgggc ggggccgagg tactagcttt ccaagtgaga catgttatac 60  
 ccagtagact cgggtataatt tctgacagcc aaatgtatcc caatttcact cagtagggct 120  
 gccaggagat gggtagggat acaaacaaaa tcatctactt tatcaatctt ttttttttct 180  
 atggattttt tccccatttg gctttcaaag caagtggat aaacagcgtt actggcagat 240  
 attgggtcata aataacatct tcccaaagcc caacagtcaa aaaacaaaca ccaaataataa 300  
 gcagattagg cagatttctt aaatattcag ttaaggctat ggtgtgcttg gttttgacca 360  
 gagcaattct atggcttctt tttatttttc tccctggata aaactatgct tacttgatcc 420  
 atgcaatttc agttgttaca gctttaactt ataagatcaa aggaattaaa aagttgtcag 480  
 aatagatttt caaataatga caaaaactga cataaagtct acacagaact gacataaagt 540  
 ctacacagtc ctacaggata tggataaaaac aaatgaagtt tcatgactgg aagggggctc 600  
 ccttctaag 609

<210> 33  
 <211> 543  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 38, 451, 509, 537  
 <223> n = A,T,C or G

<400> 33  
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 attctcaaca gcatcgctga ttaaaggcac agaattctct tgatttattt tacaatttgg 180  
 tagctcattt atatccagtt catcttgcaa atcacttctc ttttctatac tgatggctctc 240  
 ttcatgtgca tccaggctgg aagcacgtag tgcagcggac agcacttcca cttgtgcttt 300  
 aacatctgga tcatcaatgt ggggctctag attttctatc atttcttcca gttcctttct 360  
 ggtggccatg gtgatgtttg gagaactggg cacagggccc tcagattctt cctctgggtcc 420  
 ctctgggctg ggttttcccc cagagttctg ntcaagctct atgtctagat ctatttcagg 480  
 aagaggagtc ctccagaaat ggaaggagnt atacaattcc tgatctaaga gagctgnatc 540  
 ttg 543

<210> 34  
 <211> 259  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 234, 255  
 <223> n = A,T,C or G

<400> 34  
 aattcgccct tagcgtgggc ggggccgagg tacctactgt gtgctttcta ctatcagcca 60  
 tcaaaaagaa tgataaaagt ccacagcata ggaatctggt catctgagtg ttctgccaaa 120  
 aaatacagta attacaagta gtgtcaccat cagtgacaag ggcagggaag actatttttc 180  
 ctttttttcc caacttattc aaataacttaa acctcttcta tttcgagttc aaangaggta 240

aacatacaac ctcanaggt

259

&lt;210&gt; 35

&lt;211&gt; 346

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 38, 69, 70, 255, 280, 328, 337

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 35

```

aattcgccct tagcgtgggc ggggccgagg taccacanta tcttcctcct tctgcggtct 60
ctctgtttnn gtcttgctta tgcttcttca actctgcgcc tggataactt tcatgttaat 120
ccattctgag tcatttggtc ttcttggcct gtcaagacac ccaaaaaagg ccaagctgtt 180
caccagggga gccatactgg cacattcctt ctgcgcttga taatatctgt caattccctt 240
cagccagggga ccagncactt taggctatta gcctgcaggn catttagaag atttaagtaa 300
atatctgatt tgaggaacct gggataanag tcctttacca taagag 346

```

&lt;210&gt; 36

&lt;211&gt; 834

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 698, 765, 769, 776, 792, 817

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 36

```

aattcgccct tagcgtgggc ggggccgagg tacgtaggat taacagggtta taacagcttt 60
gcattatcac atgttgctaa gccaaagggtg ttcttcaaac ttctctttcc tgcacttctg 120
gtaatcttct tccctcatc cccccaggcc tgagggttga tattctcaaa taatgtggta 180
ggctcattcc tggctagctt tttgctggca agaataatct ctccctcaaa gtgttcaggt 240
taactcttct aaaacatctc atattagtct acaccagata tagtcttcct tctagatata 300
ttagagttga ccaagtcttt ccctaaaagg ataattatat aaaagagtag gaacaaaggt 360
agtcatttct ctccatttct gagaattaca tcttttaaca catgggcaaa atttaagaca 420
aagacattca ttcatcttctg ataaacaagc tactcgggtg tgaagtgagg aggtggaaaa 480
gggcaatgct gagtagaaga acatacgttt tcttctacac acacattaac agatttcac 540
tcatctagac tagaagaggg ttaatgggac aagtgaagaa atcctctcca cccattgtg 600
aaaagcaaag tagctcctct agcaaatatg cttcagaatt aagtctgatg ctcagaacac 660
tcagatcaaa ttatccttta ttaaaatgaa gcaccagnca agtataggaa aaaaaataaa 720
gggaacttca tctctcacat acaaaaacgta cctggcccgg gcggnccgnt cgaaangggc 780
gaaattctgc angatatcca ttcaacactg ggcgggnccg cttcgaacca tgcc 834

```

&lt;210&gt; 37

&lt;211&gt; 613

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 38, 39, 550, 556, 576

<223> n = A,T,C or G

<400> 37

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aattcgccct tagcgtggtc ggggccgagg taccgccnnc tctctgctct ccacagggct 60
ccccgcccc cccggcctga taaagcgcg cgaactgggt acaaggccaa gcaagggttac 120
gttatatata ggattcgtgt tcgccgtggg ggccgaaaac gccagttcc taagggtgca 180
acttacggca agcctgtcca tcatggtgtt aaccagctaa agtttgctcg aagccttcag 240
tccgttgcaag aggagcgagc tggacgccac tgtggggctc tgagagtcct gaattcttac 300
tgggttgggtg aagattccac atacaaatth tttgaggtta tcctcattga tccattccat 360
aaagctatca gaagaaatcc tgacaccagc tggatcacca aaccagtcca caagcacagg 420
gagatgcgtg ggctgacatc tgcaggccga aagagccgtg gccttggaag gggccacaag 480
ttccaccaca ctattggtgg ctctcgccgg gcagcttggg agaaggcgca atactctcca 540
gctccaccgn taccgntaat ataagtaaaa gtttgnaaaa attcatactt aataaacaat 600
ttaggacagg tca                                     613
```

<210> 38

<211> 622

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> 41, 70

<223> n = A,T,C or G

<400> 38

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aattcgccct tagcgtggtc ggggccgagg tatgcccttt ncctaacact cacaacaaaa 60
ctaactaain ctaacatctc agacgctcag gaaatagaaa ccgtctgaac tatcctgccc 120
gccatcatcc tagtcctcat cgccctccca tccctacgca tccctttacat aacagacgag 180
gtcaacgata cctcccttac catcaaatac attggccacc aatgggtactg aacctacgag 240
tacaccgact acggcggact aatcttcaac tctacatac tccccccatt attcctagaa 300
ccaggcgacc tgcgactcct tgacgttgac aatcgagtag tactcccgat tgaagcccc 360
attcgtataa taattacatc acaagacgtc ttgcactcat gagctgtccc cacattaggg 420
ttaaaaacag atgcaattcc cggacgtcta aacaaacca ctttcaccgc tacacgaccg 480
gggggtatact acgggtcaatg ctctgaaatc tgtggagcaa accacagttt catgcccac 540
gtcctagaat taattccctt aaaaatcttt gaaatagggc ccgtatttac cctatagcac 600
ccccctacc cctctagag cc                                     622
```

<210> 39

<211> 568

<212> DNA

<213> Homo sapiens

<400> 39

```
aattcgccct tagcgtggtc ggggccgagg tggagttctt gcaagtcggc caggatgtct 60
caggctgagt ttgagaaagc tgcagaggag gttaggcacc ttaagacca gcatcggat 120
gaggagatgc tgttcatcta tggccactac aaacaagcaa ctgtgggcca cataaataca 180
gaacggcccc ggatgttgga cttcacgggc aaggccaagt gggatgcctg gaatgagctg 240
aaagggactt ccaaggaaga tgccatgaaa gcttacatca acaaagtaga agagctaaag 300
aaaaaatacg ggatatgaga gactggattt ggttactgtg ccatgtgttt atcctaaact 360
gagacaatgc cttgtttttt tctaataaccg tggatggtgg gaattcggga aaataaccag 420
ttaaaccagc tactcaaggc tgctcaccat acggctctaa cagattaggg gctaaaacga 480
ttactgactt tccctgagta gtttttatct gaaatcaatt aaaagtgtat ttgttacttt 540
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa                                     568
```

<210> 40  
 <211> 83  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 42, 65  
 <223> n = A,T,C or G

<400> 40  
 aattcgccct tagcgtgggc ggggcccagg tggtcgtgac angatcaagc gtgctttcct 60  
 tatcnagggg gggaaaatcg ttg 83

<210> 41  
 <211> 774  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 679, 728, 730  
 <223> n = A,T,C or G

<400> 41  
 aattcgccct ttcgagcggc cgcccgggca ggtaccattt gcctcccggg ctcaagcgat 60  
 tctcctgcct cagcctccca agtagctggg attacaggca cctgccacca tgcccggcta 120  
 atttttgtaa ttttagtaga gacagggttt caccatgttg ccaggctgg tttcgaactc 180  
 ctgaccttag gtgatccacc cgctcgggcc tcccaaagtg ctgggattac aggccttgagc 240  
 ccccgcgccc agccatcaaa atgcctttta tttctgcata tggtgaatac tttttacaat 300  
 ttaaaaaaat gatctgtttt gaaggcaaaa ttgcaaactt tgaaattaag aaggcaaaaa 360  
 tgtaaaggag tcaaaactat aaatcaagta tttgggaagt gaagactgga agctaatttg 420  
 cattaaattc acaaactttt atactctttc tgtatatata ttttttttct ttaaaaaaca 480  
 actatggatc agaatagcca catttagaac actttttggt atcagtcagt attttttagat 540  
 agttagaacc tggtcctaag cctaaaagtg ggcttgattc tgcagtaaat cttttacaac 600  
 tgctcgcaca cacataaacc tttttaaaaa tagaacctcc ccgaagtctt ttgttcgcat 660  
 ggcacacact gatgottana tgttccagta atctaatatg gccccagtaa gtcttgatga 720  
 cccaaagntn cttttttttc catcttttag aaactacatg gggaacccaa caga 774

<210> 42  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 38, 68, 70, 90, 95, 113, 124, 125, 126, 136, 140, 144, 147,  
 149, 154, 168, 178, 187, 191, 192, 209, 212, 238, 258  
 <223> n = A,T,C or G

<400> 42  
 aattcgccct ttcgagcggc cgcccgggca ggtacaanta tttgtaacac tggatgactc 60  
 ctgttgtngn tattttctat cttctctggg gcaangtatt ctcttgggc cancttgaaa 120

```

atgnnnntttt tacggncgan gatnttnana gttncattcg ggagccancg accaatgnct 180
cctgtgngaa nncagccatc actgtccang gnttcctgtg tcttctcagg gtccttcngg 240
tatccctttga acacgggtngg cctc 264

```

```

<210> 43
<211> 432
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 38, 40, 70, 337, 340, 369, 388
<223> n = A,T,C or G

```

```

<400> 43
aattcgccct ttcgagcggc cgcccgggca ggtacagntn gataatacta cctatttttaa 60
actaaatatn gatgaacaaa cagcggttaa aaccagaatc agggcttata aatagtgcag 120
aaaatgcaaa cgccaaaaaa acgatgcctc ctatgattgt cacagttctg acagagattt 180
tctgtgctat cattcttctc ccaattactg ccaatcccg tgcacaggcag tgccccacag 240
ttccaccacac ggctacacca taggggtcct ggaagcaagc gtcacagcat taattcaaaa 300
ccaagggtgac aactgctgct tgagaaccat aacaatncan aagcactaaa aatgggtggc 360
aacaattana aagcataata gttataanaa tgcaggcgtg taataaattt atgaaaggcg 420
tcatggcctg ct 432

```

```

<210> 44
<211> 149
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 70, 72, 126, 144
<223> n = A,T,C or G

```

```

<400> 44
aattcgccct ttcgagcggc cgcccgggca ggtacattga ttttctttct aaaactttgc 60
tgaagttttt tntattagca gaaggagctt tgcggctgag actatggggg tttctagata 120
tagaancatg tcagcttcaa atangata 149

```

```

<210> 45
<211> 597
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 37, 70, 107, 431, 485, 518, 525, 531, 549, 575
<223> n = A,T,C or G

```

```

<400> 45
aattcgccct ttcgagcggc cgcccgggca ggtacnctt cattccattc cataccattc 60
cattccaggn cattctattc cgttccattc cattcctttc cgttccnttc cgttccattc 120
cattccattc cattctattc gattaattcc attccattcc attccattcc attctattcc 180
attccattgc aatcgagttg aatccattgc atttcattcc attccattcc attccattcc 240

```



```

attccggaag ttccattcc attgcattcc attccattcg attccattcg attgcactcg 300
ggttgattcc attccattgc attccattcc attccattcc attccattcc attacattcc 360
attccattac attcggattg attctattca attcccttac actccattac attccattcc 420
attcgggtag ntccattcc attccattcc attcctctcc attccattgc actcgggttg 480
atgtncattc cattgcattc cattccattc cattgcgntc cattngcatt ncattacatt 540
cggattgant ctattcaact cccttactct ccatnacatt ccattccatt cgggggtg 597

```

<210> 46

<211> 412

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 38, 56, 70, 308, 362, 381, 387

<223> n = A,T,C or G

<400> 46

```

aattcgccct tcgagcggcc gcccgggcag gtaagccntg cgttgcggtc caaggnatct 60
gtgagcccg n ggagtataca ccattgagcaa agctcaccct cccgagttga aaaatgaaat 120
taaatgggtg cagacatgtc caaggaatat tgcggggatt tgatcccttt atgaaccttg 180
tgatagatga atgtgtggag atggcgacta gtggacaaca gaacaatatt ggaatgggtg 240
taatacgagg aaatagtatc atcatgttag aagccttgga acgagtataa ataatggctg 300
ttcagcanag aaacccatgt cctctctcca tagggcctgt tttactatga tgtaaaaatt 360
angtcatgta cctcggcggc naccacncta agggcgaatt ctgcagatat cc 412

```

<210> 47

<211> 690

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 670

<223> n = A,T,C or G

<400> 47

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aattcgccct ttcgagcggc cggccgggca ggtggtaatc ccagctactc aggaggtga 60
gacaggagag tcgcttgaac ctgggagggc ggaggttgca gtgagccagg atcgtgccat 120
tgactccag cctgggcaac aagagcgaaa ctcttgtctg aaaaaataaa gttcatccca 180
actttcaagt ctacaaaaac ataattccaa tctaataaca tagttgtaaa tgagagcaac 240
aataaaaagt agacatgggc tgggtgcagt ggctcactcc tgtagtccca ggactttggg 300
aggccgaggt gggaagatcc cttgagccca ggagttcgag acaagcctgg gtaacacggg 360
gagaccggtc tttagttaat aaaaaataat ttattaataa aactaaaaat ttaataataa 420
aaagtggaca ttgtttttta aaatgtgtat agtatgcatt ttaaagatag tgtcactgct 480
gtggaaaacc tgaacagaca gtatgatcca gaatgtcagg tgtggagttg ggcggaacag 540
agcctgctga tgaggacaac ctaaaagagc actggatttg gaatcagaag acctaccttt 600
gattcctggc tttcccttaa tggccatgtg atgggtattaa gtcagcctct aaagcttttag 660
tttctgtctn gtcaaatgtt gacatgatac 690

```

<210> 48

<211> 697

<212> DNA

<213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 475, 564, 618, 633, 656, 689  
 <223> n = A,T,C or G

<400> 48  
 aattcgccct tagcgtgggc gccggccgag gtttgaattt ttatatgtcg ctattgttat 60  
 gttttctgta attgtttata tctaaggaa ttttgaggta atataaaaga aaaagagaat 120  
 aatgaacaat gatgtcactg gaggggtttt acattaaatt agatcatttt tcttcttatt 180  
 cacaataata atcttaattct ttaagaatta attataattt aatattataa ttcataaatct 240  
 ttaagaatta ataattataa tttaatatta taattaataa tctttaagaa ttaataatat 300  
 aatttaatat tataattaat aatctttaag aattaataat tacaattaat aattaataat 360  
 aatcttaatc ttttaagaatt aataataatc cttaatcgcg ataataatcg caaggaggag 420  
 aagtaagtcc ctctctcttc tgtatgaact tttctccac atgctgctgt atggnttagt 480  
 gagagtgaag ttctaaagaa catcaatatg attggtggga taatccaaag acattttttc 540  
 agaatcaaag ggcattgcga aggnttggtt ctgcatatg tatttactgg gtccacagcc 600  
 aaaataaagg tgaccacnta tacataggaa agntgaattt ggaccctgcc cgggcngggc 660  
 cgctcgaaag ggcgaaatc tgcagatanc ccatcac 697

<210> 49  
 <211> 341  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 69, 306, 312, 318, 327  
 <223> n = A,T,C or G

<400> 49  
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 ggctccagnc tgcttttccg cccgggtgtc tccagatcat gctttgccct ggagtaacct 120  
 gaatcatcta aaaaacacgg tctcaacctg gccaccgtgg gtgaggcctg accaccttgg 180  
 gacacctgca agacgactcc aaccaacaa caaccagatg tgctccagcc cagccgggct 240  
 tcagttccat atttgccatg tgtctgtcca gatgtgggtg tgagcggggg tggggctgca 300  
 cccagngcat tnggtcancc gccagancat aaaacgcagc g 341

<210> 50  
 <211> 617  
 <212> DNA  
 <213> Homo sapiens

<400> 50  
 aattcgccct tgagcggccg cccgggcagg taccattctt gttttccccc agcaacgccc 60  
 ctccaaacct ccagcctccc tgtctccagc tgcttgggccc cggaagggct ttggttccct 120  
 ctctgggtct gatcttctca ctgaactcca ccgaccaact gccctaagcc cccagggcct 180  
 ccagggccca ggttcagagc ccaaaccccc aaaatccaaa acttctcttg aaaagtccag 240  
 ggaccgtcca ggggagatgg ggaggagata tggagtgaat cacctgctcc agaagatgcc 300  
 agcttctctc tccaggggtg ttagttggct ttgcccaccc ctactcccc agggagctct 360  
 ggggacagcc tctcaccacc cctgtccacc ccacacagct gccctagctg accccgagaa 420  
 gtgctcttgg ctgacccctc tgggtgtgtg tgaggggctt tctcttcccc ttctgtttc 480  
 agaccccccc atttcccgca catggtgtgg ggggctgggg gaggtccaag cagagtgttt 540  
 tattattatc gctttatgtt tttggttatt ggtttttttg tatagaccaa agcaaaagaa 600

ataaaaaataa cacagag

617

<210> 51

<211> 326

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 5, 36, 269, 298, 311, 316, 318

<223> n = A,T,C or G

<400> 51

```
accantat tttgaggatt ttgcacagtg taaaangaca taatcataga ttgctatggt 60
ttaggctgta tatacagtga aaactatggg ttttaaagt ttggggaaat tcctatggaa 120
aaaagagaga catgtagaag aacctctaac aagggttaat tgcattgcca aggtcttttg 180
aaatttcagt gtgtaaattt ctttttagct tatacaaaaa taaaataatt taaaagaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaang aaaaaaaaaa aaaaaaaaaa aaaaaaangc 300
ccctcggccg naaccncnct aagggc 326
```

<210> 52

<211> 123

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 61, 71, 93, 111

<223> n = A,T,C or G

<400> 52

```
aattcgccct ttgagcggcc gcccgggcag gtactcatatc ttgatcgatt aatgaagtgg 60
ntattttggg ntttgcttga tattatcaac tcnctggcaa caacactatt natgctcacc 120
gta 123
```

<210> 53

<211> 326

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 271, 293, 305

<223> n = A,T,C or G

<400> 53

```
aattcgccct taggcgtggt cgcggccgag gtacaccaag cacctat tttt tataacttag 60
cttcccatgg agagataatg gcttgctgac attttatgta tccataacat acatacaagg 120
ctcgggtcttt tcaatgggat aacagttcac aactcttcga tttgaattgt aatgaatctg 180
gtgacaagga tttttctcta atggattcca aagttagcca gaacttttaa tgtcaagatg 240
aaaaagggtg taagggtgta tttttcttc ntttccttta ccacaggagg ctnactccac 300
aatngctca tgtttctcat tcagaa 326
```

<210> 54

<211> 557  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 70, 498  
 <223> n = A,T,C or G

<400> 54  
 aattcgccct tagcgtgggt cgcgcccgag gtactacgtt gtagccact tccactatgt 60  
 cctatcaatn ggagctgtat ttgccatcat aggaggcttc attcactgat ttcccctatt 120  
 ctgaggctac accctagacc aaacctaagc caaaatccat ttcactatca tattcatcgg 180  
 cgtaaatcta actttcttcc cacaacactt tctcggccta tccggaatgc cccgacgtta 240  
 ctcggtactac ccgatgcat acaccacatg aaacatccta tcatctgtag gtcattcat 300  
 ttctctaaca gcagtaatat taataatttt catgatttga gaagccttcg cttcgaagcg 360  
 aaaagtcta atagtagaag aaccctccat aaacctggag tgactatatg gatgcccccc 420  
 accctaccac acattcgaag aaccctgata cataaaatct agacaaaaaa ggaaggaatc 480  
 gaacccccca aagctggntt caagccaacc ccatgggccc ccatgacttt tttcaaaaaa 540  
 aaaaaaaaaa aaaaaaa 557

<210> 55  
 <211> 418  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 39, 305, 325, 343  
 <223> n = A,T,C or G

<400> 55  
 aattcgccct ttcgagcggc cgcccgggag gtacagaant cagaggaaaa aagaaattaa 60  
 atttttagctt tctggagagc agcccctctc tggcaccatc aaacacttct ttgtttccct 120  
 tcaacttgga actcttcaaa catcaggggt tgtgaggggt tggccattct tttatcttgg 180  
 gtccatgtga gtgacagaaa tgggtgcggc tgggaaagat ctccctcctt tacattttct 240  
 cttctccctc ctctctctta ttctaaaact gtgcctccaa cagaggggca ggggctcttg 300  
 taganagatc cctggcccag gacangagat gccaaatcta atntatctca ctgagggcct 360  
 ttgagaaaaa cgcttcaggg ccaggctcag tggctcatgc ctatataatc ccagtacc 418

<210> 56  
 <211> 360  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 38, 283, 304, 337, 348  
 <223> n = A,T,C or G

<400> 56  
 aattcgccct tgccgcccgg gcaggtacac agctgtcntg gaaagtccctg atggccacag 60  
 tgaaaaaggg catgggtgga gagaagcaaa gtaggaagga tcatttgaag cacaacaaaa 120  
 tggggaaact gaacagacaa tctcagtatc accacatctg cttcaaaaat agcacaccaa 180

```
ctcccttcca aagtgcacgc ttacactgca ccatcgtgga agaaatggaa gagcaggatg 240
gatttggctg gctggagtc catcttgggg aagctggcca ggntggcaat gccacaggcg 300
ttgntcttat ttgcagccat gaggatatat cctttgnttc cccagctntc tccccagctg 360
```

```
<210> 57
<211> 428
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 73, 82, 105, 147, 168, 191, 196, 204, 215, 218, 225, 227,
236, 253, 260, 266, 269, 280, 287, 309, 317, 321, 339, 349,
352, 355, 356, 363, 374, 391, 403
<223> n = A,T,C or G
```

```
<400> 57
aattcgccct tagcggcccg ccggggcagg tactcccttt tttgagaaac tttcttgaag 60
aacaccatag gngctgggtt gnagttgggg ctcaccactc ggacnaggta actcgttaat 120
ccacggtaac tcttaatgtt gccagngtg aactcgccgg gctggcancc tgaacaaaaa 180
gtcctgatcc ngtagncaca cttntttttc ctaancanga cggangngac attgcngctc 240
ttgttttctt tcnggtcatn gatggnggna tacatctttt gcgggtnttt gccttttctg 300
agaattgcnt tccctgncag nccataccaca taccacttnc cctggaatng gntgnnctga 360
aantctctgt gcanagggac cttgctcaca ngcaggggct ggnatcaggt ctgacgtgga 420
gtcctggg 428
```

```
<210> 58
<211> 478
<212> DNA
<213> Homo sapiens
```

```
<400> 58
aattcgccct taaggcgtgg tcgcggtctg aggtacccca aatgggttgt gccattttca 60
cataaaaatt ggaatgataa tgaacaagt aaagtgaaat cagtttccct ctttgttca 120
ataaacatgg ttagagcacc tgtgtgcaag atagtgggac aggtgctgag gggaaaggta 180
aagctgttta agctgtggcc ctgagctgaa ggagcaatct agcagtgcc a tcaggccctg 240
cacactgcag agcacagtgt cccaggggcc aggtggaggg aaggatcact tccggctgca 300
gcatcaggga aggcactctg cagtctcccc tccaggttct cagcgtgect ctatgcctgt 360
gtgactgctc agcctgcccc attccaggca cttgctcatt ttccttatct ttctctgtag 420
catgagaaat ggaagtttga gaggatagga tcctacctca caggtacctg cccgggcg 478
```

```
<210> 59
<211> 453
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 38, 69, 72, 187, 366, 421, 448
<223> n = A,T,C or G
```

```
<400> 59
aattcgccct tcgagcggcg ccggggcagg tacagtgnta gctccccctg ggcaatacaa 60
```

```

tacaagaana gnggggttttg tcaaattgga acaaggaaac agaaccacag aaataaatac 120
attgggttaac atcagatttag ttcagggttac ttttttgtaa aagttaaagt agagggggact 180
tactgtntta tgctaaactca agtagactgg aatctcctgt gttctttttt ttttaaattg 240
gttttaattt tttttaattg gatctatctt ctcccttaac atttcagttg gagtatgtag 300
catttagcac cactggctca atgcgctcac ctaggtgaga gtgtgaccaa atcttaaagc 360
attagncta ttatcagtta ccaccatttg gggcttttat ccttcacggg gtatgatggg 420
ntcctgagga cacatttctc tgagttcngt aat 453

```

<210> 60

<211> 407

<212> DNA

<213> Homo sapiens

<400> 60

```

aattcgccct tgcaccacca agcgaaacat cgcacgcagc gagcacgtac tcggatggaa 60
gccggctctg tcgatcagga tgatctggac gaagagcatc aggggctcgc gccagccgaa 120
ctgttcgcca ggctcaaggc gcgcacgccc gacggcgagg atctcgtcgt gacccatggc 180
gatgcctgct tgccgaatat catggtggaa aatggccgct tttctggatt catcgactgt 240
ggccggctgg gtgtggcgga ccgctatcag gacatagcgt tggctaccgc tgatattgct 300
gaagagcttg gcggcgcaatg ggctgacggc ttccctcgtg tttacgggat cgcgcgtccc 360
gattcgacgc gcacgcgctt ctatgcgctt cttgacgagt tcttctg 407

```

<210> 61

<211> 486

<212> DNA

<213> Homo sapiens

<400> 61

```

aattcgccct tggccgcccgc ggcagggtgtt cggagggtggt gcggagctcc tgtttgacgg 60
tattaagaaa catcgagtca ctttgccctgg acaggaggaa ccctgggaca tccggaacct 120
gctcatctgg atcaagaaga atttgctaaa agagcggcca gagttgttca tccagggaga 180
cagcgtgcgg ccaggaattc tgggtgctgat taacgatgcc gactgggagc tactgggtga 240
gctggactac cagcttcagg accaggacag cgtcctcttc atctccactc tgcacggcgg 300
ctgagggccc ttctctgggc ctgggcaccc ttagagggga gaacgaagca atcagacatc 360
cccttggggc ctgcttcacg gtctccctgt ccccttgcc tgccttcttc cctgctctgt 420
cccctaagct ccctccaggc agggaaaaga ggccagggtgc taaaaatgag cctttctcaa 480
gcaccg 486

```

<210> 62

<211> 227

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> 4, 3<sup>7</sup>

<223> n = A,T,C or G

<400> 62

```

tcancacat gagggcccaac acacacagat cagatgntca aatttcagat cttaccatca 60
tccaacttaa actgtttctc cctcccagtt gtcaggagga agaagacctg gcttttagcac 120
aagcactgtc agccagttag gcagaatacc agcggcagca ggtatgaggc tgggctgaag 180
atatatgctg cagtgggaagg gaggaagaag tcagggatgg gggttct 227

```

<210> 63  
 <211> 166  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1, 43, 62, 64, 70, 73, 91, 92, 94, 101, 105, 120, 143  
 <223> n = A,T,C or G

<400> 63  
 ntaactaaag gagctggttg catctgtotg tgcggatgga gantttctttt atctgacacc 60  
 angntccan ccnactgaa acaaggcatt nntntacaga nctcnactaa aacccctttn 120  
 cattaggcta ctccacttcc ttncctcat acctacccca cctcgg 166

<210> 64  
 <211> 204  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 5, 6, 106, 116, 147, 178  
 <223> n = A,T,C or G

<400> 64  
 acccnnngggg gcttgtagca catttttaaaa tcacagttat aataatgtct ctcagctaaa 60  
 gacactacca catccagatt ctcttgcaag ccatctacag attcanggat gaccgnttca 120  
 ctaggcttat tatatttttt caatttnttc tcaaatacaa aacgcaccaa tttctgtntct 180  
 tcattacaca gcttggttaag gggt 204

<210> 65  
 <211> 425  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 25, 39, 65, 415, 417  
 <223> n = A,T,C or G

<400> 65  
 ggttcgcggg cgaggaacat agttntggaa attatttgng gtaaggaaat atgggttact 60  
 ccagntgcat ttctcagaca ataaagtggg gcatccatgc tacctcctac ttgtgcaaca 120  
 aagatgctat ttacccttta catttttgta tcataataga ttttaaaaat ctaatgttct 180  
 ttattgcaag acattctttt gttaacaggg ttgtttcttt ttaatgtttt acctaaaatt 240  
 tgacatgctt acaggacagg ttgcctctt actttattta acattgtaga aatgtaatta 300  
 ataaacaatg ctactacac agtttagaat agacgctctc atttatatta tottccaaat 360  
 ttgatcagtt agcaaaactt aatacaccaa ttaaaatatt tctacatatg agaangntca 420  
 cactc 425

<210> 66  
 <211> 132  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 3, 19, 108, 115

<223> n = A,T,C or G

<400> 66

```
tancctgacc acgggcacna ttgctgtgac tcaaactctc cctaattgctg cctataataa 60
ccgcttttca tatgctaattg ttgcttggca agatattgac tttgctgngg atganaatgg 120
attgcgggat at 132
```

<210> 67

<211> 136

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 3, 46, 90, 97

<223> n = A,T,C or G

<400> 67

```
tgngcataat acagtggggg gggcattata caaactctgc tatacngctg atcttttagac 60
ctaattgatc ttgcatacta taattctatn ccaattngac aactccctat ttcctcattc 120
actcccttcc tctttt 136
```

<210> 68

<211> 538

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 70

<223> n = A,T,C or G

<400> 68

```
aattcgccct ttcgagcggc cgcgcgggca ggtactcatt ggtgaccaa atctggtgac 60
accatctttt atgttctttg ccatattctt aaatgcctgg caaacagtag atatttacca 120
gatgaatatg acattaaaaa aataaatttc aagagattga gattctttag ccaagttgag 180
ggactacatc attttgaagc actctagaag ggggatgtga ttaaattgtga ctgcatgcct 240
gggctggctg cttctaggta tagagctgtg ttaaggcgtg ggaataggag agcaatgccc 300
tagggaaaaag agggcactag gggaaacaat ggttgcagtg cactgcagaa tgaccaatgg 360
cacctacttc cagagttttc cttcaactaa aaagagatgg cattttctta tgattcagta 420
accgcattac ttacatcaac attatggttg ctatagacaa gcctaggtag ctagcctcta 480
tttacatcat ccactaagg gtatccaaac cacctcggcc gcgaccacgc taaggggcg 538
```

<210> 69

<211> 248

<212> DNA

<213> Homo sapiens

<220>



<221> misc\_feature  
 <222> 38, 229, 242  
 <223> n = A,T,C or G

<400> 69  
 aattcgccct tagcgtgggc gcggccgagg taccaaanca agaaccatat aaatgatgcc 60  
 tagggacaag aaagaggaac aattctatag cgcacaataa aggaaaccta agaatgggag 120  
 ttacaaatag taaagaagct tttttttttt ttttaattta aagttttttt atgtaagttt 180  
 tcccacatga tggggccttg ttttgcaggt tgatgaacaa ctacaccng aaaactacta 240  
 tngttaa 248

<210> 70  
 <211> 262  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 256  
 <223> n = A,T,C or G

<400> 70  
 aattcgccct tagcgtgggc gcggccgagg tacctcccca cccaggcctc gctccttctc 60  
 cacggtttgc agggcccaca tggcagctgt ggtgcggggt tccagccagc gggcggtgac 120  
 agtgccagc gtaaggctca ggaacagcag gtaaagctgg ctggcctccc agaatgtgag 180  
 ctgagcccaa gcatgctgtg aagccaagat gcagagggtg atgaaggcac agcccatgga 240  
 gatgtggaag cagaangga aa 262

<210> 71  
 <211> 242  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 38, 40, 88, 93, 231, 236  
 <223> n = A,T,C or G

<400> 71  
 aattcgccct tagcgtgggc gcggccgagg tattcctnan aaccgtggcc ttatgtagca 60  
 tcatggtgaa aactccgtat cgccttngc ttntgacttc atatcttact ttccaaggcc 120  
 gaattctttc attgtttct cttcaccaga ttcccaacat tatcaattct ggctcctaga 180  
 agtgtgctat ggcaaactaa tttgcaagca ttaagggtgg aagtggaatc ncaatnaaca 240  
 ga 242

<210> 72  
 <211> 139  
 <212> DNA  
 <213> Homo sapiens

<400> 72  
 aattcgccct tagcgtgggc gcggccgagg taaaaaaaaa aaccagccaa aaccacaact 60  
 ttttactgaa gtgtaatgta aatgctgtaa aaggcagtga aaggcacaag ggaggtggag 120  
 gggtaggaag ggtggaagc 139

<210> 73  
 <211> 845  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature

<222> 48, 71, 121, 162, 167, 169, 182, 203, 208, 265, 282, 324,  
 349, 380, 457, 525, 538, 543, 572, 601, 602, 625, 626, 628,  
 629, 651, 663, 674, 678, 679, 687, 699, 708, 709, 718, 720,  
 721, 722, 731, 746, 755, 756, 765, 770, 790, 803, 826

<223> n = A,T,C or G

<400> 73

```

tttttttttt tttttttttt tttagagttta aatgcatttt ttttttanac aacctacatg 60
acatgttttt nttaaaaaaca atgcctccac tccaaataaa tcacagtcaa aataaatgaa 120
nagctcaaga tgacatcagt cccatttgct ttaagtcctg gngttgngng gatgacaagc 180
anaagccagt tatgatgaca ggngatanat ccaaaataat tgccacattt gttaacattt 240
ttccatttct aaaccatcct taaanaaaat catatatggg gncacaccat cctcacggga 300
gtccaataga gcaaccatgc catntggatt catgttttca ccaataaana actggtagtt 360
tttgaaatta gcaaggatgn gcttgatttg ttctgcagcc cctgtcataa aagggttttac 420
tctttctggg ctctgggtctt caagtttccc ttgatngat ttcattgtaat ctttgatgga 480
ccttcttgta ggcttctttt gtgaaacttg ttctctgcag ggganggttc atgacaanta 540
tcnaccocag gggattactg gggttttcgg tnccttcgcc cctcggggg gccctttcaa 600
nngggggggg catttttccc cccnnanng gagggccgga aggtccattc naaatggggt 660
ttnacccctt ttnggggnnc ccttacnttg ggacccaant tttttttnnc cctttgcnan 720
nncttttcga ngggggaaac aaaaancccc cgggnngccg cggnggaaan accttcccc 780
ggggaaatcn ttgtgaaaa aanggccggg ggaaaaaaa aaattntttt atttctcggg 840
ggctt                                     845

```

<210> 74  
 <211> 311  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature

<222> 33, 55, 61, 76, 107, 122, 131, 139, 152, 174, 176, 180, 190,  
 191, 195, 214, 216, 230, 231, 240, 259, 290, 311

<223> n = A,T,C or G

<400> 74

```

tttttttttt tttttttttt tttttttttt ttngcttata aacatccttt attgnacata 60
nacaggggat actganaatg atcaagtaaa tggaattttg aacaggnaaa gaggaacaa 120
anaattaagg natccctgng gaatagtgca anaaaggagg gccccacca tagngtatn 180
tacaataggn nctcngggga aaggacccca aggnngcaaa ccacaaatgn ntgaccaccn 240
caattttatg atcaaactnt acctctagca aggggtttca acaatcaagn tttattttaa 300
tcattcgctc n                                     311

```

<210> 75  
 <211> 551  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 533, 540  
 <223> n = A,T,C or G

<400> 75  
 actgaaacct gacctctgac cccagaccac tggcccttcc cccgccctgt ggtgacttca 60  
 taaaggttac tagcttctcc cctggccttg agaccacac gatggccctg ctggctctgg 120  
 ccagtgccgt ccgtctgcc ctgctggccc tggctgtctt cagggtgccc gcctgggcct 180  
 gtctcctctg cttcacaacc tactctgagc gcctccgcat ctgccagatg tttgttggga 240  
 tgcggagccc caagcttgaa gagtgtgagg aggccttcac ggccgccttc cagggcctct 300  
 ctgacaccga aatcagttag gagaccatcc acacttcac agtgtcctgg ggaaggtgca 360  
 gagggagggc aggagaggcc cagaggggtca ggctgaggga cagacagaga gaaacagtca 420  
 gaggagaaaag gctcaaagac catgagaaca acagagactt agggacagga gagacacaga 480  
 caggggaaga cagcagggca aagactcaga gaggggagga tggagagtca ganaggggan 540  
 gatggagact c 551

<210> 76  
 <211> 717  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 54, 56, 400, 439, 474, 526, 565, 607, 608, 616, 655, 659,  
 694, 717  
 <223> n = A,T,C or G

<400> 76  
 gacacctgtg gctcttattt cctaggtgga cagaggcagc cgggatgaca gctntnccca 60  
 ggaatcctgc tgcttctga gaaacatggt cagcaagtcc cgctggaagc tcctggccat 120  
 gttggctctg gtcttggtcg tcatggtgtg gtattccatc tcccgggaag acaggtacat 180  
 cgagcttttt tattttccca tcccagagaa gaaggagccg tgcctccagg gtgaggcaga 240  
 gagcaaggcc tctaagctct ttggcaacta ctcccgggat cagcccatct tcctgaggct 300  
 tgaggattat ttctgggtca agacgccatc tgcttacgag ctgccctatg ggaccaaggg 360  
 gagtgaggat ctgctcctcc ggggtgctagc catcaccagn tcctccatcc ccaagaacat 420  
 ccagagcctc aggtgcccgc gctgtgtggt cgtggggaac ggcaccggct tgcngaacaa 480  
 gctcactggg agatgccatc aacaagtacc gatgtgggtc attcanattg aacaatgccc 540  
 cagtggctgg ctatgagggt gacgnggggc tccaagaacc accatgcgtt tcttctaccc 600  
 tgaatcnncc cacttncacc ccaaagtagg aaaacaacc cagacacact cctctcctnt 660  
 ggtaggcttg tcaagggaat gggactttcc actnnggatt ggagacccat cctctgan 717

<210> 77  
 <211> 874  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 579, 588, 604, 611, 613, 623, 628, 630, 631, 655, 677, 681,  
 704, 735, 736, 738, 764, 767, 774, 782, 784, 814, 815, 837,  
 848  
 <223> n = A,T,C or G

<400> 77

```

tgctgggaga cggcgggata tctttcgcca tggctgccgg gccgatctcc gagcggaatc 60
aggatgccac tgtgtacgtg gggggcctgg atgagaaggt tagtgaaccg ctgctgtggg 120
aactgtttct ccaggctgga ccagtagtca acaccacat gccaaaggat agagtactg 180
gccagcacca aggctatggc tttgtggaat tcttgagtga ggaagatgct gactatgcca 240
ttaagatcat gaacatgata aaactctatg ggaagccaat acgggtgaac aaagcatcag 300
ctcacaaaaa aaacctggat gtaggggcca acattttcat tgggaacctg gaccctgaga 360
ttgatgagaa gttgctttat gatactttca gcgcctttgg ggtcatctta caaaccccca 420
aaattatgcg ggacctgac acaggcaact ccaaaggtta tgcctttatt aattttgctt 480
catttgatgc ttcggatgca gcaattgaag ccatgaatgg gcagtacctc tgtaaccgtc 540
ctatcacctg atcttatgcc cttcaagaaa gggactccna ggggtgangc gccattggct 600
cacnagccga ncnacttctt ggnagctnan naaccgcctc tcccaggctg atggnccctc 660
ttcagcttgt ttgcagnggc nctcctcca cctttttgct cccnaccgtg tggatcatc 720
attgggggtc tgggnntnct cccccaggca tgctcctcc tggnttnttc cccncccccc 780
angnccctc ctgggagccc tcccacctgg gganncccc aggcattggc cccccncct 840
ttccctcngg gggctgcagg acatgggccc ccaa 874

```

<210> 78

<211> 887

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 661, 704, 706, 725, 732, 733, 764, 767, 806, 824, 859, 874

<223> n = A,T,C or G

<400> 78

```

cggaaggaga cgtggcgcg gttggggcgg tgatacccg gccgtttata gtcccgcgcg 60
ctcctcctcc acctcctcct cctcctcctc tctcctgga gcagaggagg ttgtggcggt 120
ggctggagaa agcggcggcg gaggatggag gaaggaggcg gcggcgtagc gagtctgggtc 180
ccgggcgggc cgggtgtact ggtcctctgc ggctcctgg aggcgtccg cggcggccga 240
gcccttcctc aactcagcga tgacatccct ttccgagtca actggcccgg caccgagttc 300
tctctgcccc caactggagt tttatataaa gaagataatt atgtcatcat gacaactgca 360
cataaagaaa aatataaatg catacttccc cttgtgacaa gtggggatga ggaagaagaa 420
aaggattata aaggccctaa tccaagagag cttttggagc cactatttaa acaaagcagt 480
tgttctaca gaattgagtc ttattggact tacgaagat gtcattgaaa acacattcgg 540
cagtaccatg aagagaaaga aactggtcag aaaataaata ttcacgagta ctacctggg 600
gaatatgttg gccaaagaacc ttctatttga aaaagaacca agaaagcaga agaaaaggaa 660
naatcaaatg aagattcccc acttaaaaaa tatccgaagg gtcnanaatg acaccatta 720
cttancctt gnnggggaat gggggaaaaa tgggtccac cctntgntag gttttgaaa 780
aacaagaac cccgggcccc cagaanaaa aagataacct gggnggaatg gtaaccatta 840
atgtccaat tcccttggn aattcttaaa agcnattgga aaaaatt 887

```

<210> 79

<211> 640

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 41

<223> n = A,T,C or G

&lt;400&gt; 79

```

ctcaatttttc tgatcaggggt gagcatcaaaa ctcaaactac nccctgatcg ggcgactgcg 60
agcagtagcc caaacaatct catatgaagt caccctagcc atcattctac tatcaacatt 120
actaataagt ggctccttta acctctccac ccttatcaca acacaagaac acctctgatt 180
actcctgccca tcatgaccct tggccataat atgattttatc tccacactag cagagaccaa 240
ccgaaccccc ttcgaccttg ccgaagggga gtccgaacta gtctcaggct tcaacatcga 300
atacgccgca ggccccttgc cctatttctt catagccgaa tacacaaaca ttattataat 360
aaacaccctc accactacaa tcttcctagg aacaacatat gacgcactct cccctgaact 420
ctacacaaca tattttgtca ccaagacctt acttctaacc tccctgttct tatgaattcg 480
aacagcatac ccccgattcc gctacgacca actcatacac ctccctatgaa aaaacttcct 540
accactcacc ctagcattac ttatatgata tgtctccata cccattacaa tctccagcat 600
tccccctcaa acctaaaaaa aaaaaaaaaa gggcgggcgt 640

```

&lt;210&gt; 80

&lt;211&gt; 982

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

```

<222> 6, 9, 10, 39, 475, 544, 555, 587, 600, 604, 623, 636, 653,
658, 661, 665, 674, 677, 689, 697, 699, 701, 702, 705, 713,
733, 737, 740, 741, 747, 750, 757, 763, 768, 771, 786, 794,
795, 802, 803, 804, 805, 806, 812, 823, 824, 827, 828

```

&lt;223&gt; n = A,T,C or G

&lt;221&gt; misc\_feature

```

<222> 835, 840, 842, 862, 863, 867, 872, 875, 878, 893, 898, 907,
908, 916, 923, 960, 972

```

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 80

```

gttcnntnnn gaatggctgc ccacccccct cacggaggnc atgatgaagg aagggtcttc 60
tctgctctgt aagacaggca atgggctggc tcatgcttat gtcaagctgg aggttaaaga 120
gagggacctg acagacatct acttgctgcg ctccctaccc acctgctctg gctcaaggct 180
gatggcaatc tgctgcgaag tgcccagatg aatgaactgc cctacctgca gattgctagt 240
tttgcttata accagattac tgacactgaa ggcattctct atcctcgtct tgaaaccctg 300
aatctcaaag ggaacagcat ccacatggtg acagggtctgg accccgagaa gttgatcagc 360
ctgcacacag tggagcttcg ggggaaccag ctggaaagca ccttggaat caatcttcct 420
aagctgaaga acctctacct ggtagctcac tgggtcagag ggtggtgcaa ggaanagggc 480
actgcctggg gggtcaggat gcctgctttc tagtagggct cagctactaa cttcatcatt 540
atgntaataa ctggnattta ttatcaagac ccttagttgg gttccanaat gcctgggggn 600
aaancaccag cccaccctaa gcnaggggct ggatanatat tataaatggg ggnggganaa 660
naacnagaag gatnaanttt acccttgana ccagggnang nnaanccaaa aantggggcc 720
cattaatttg gangggnacn naaccantcn gggctctngg ggnaaaaang ntttttaagg 780
aaaaanccct tccnntttta annnnnnggg gntttttctt ttnnagnntt ttttncccn 840
cncccccccc gaaccgaaat tnngttnacc gntncnnaa tttttccggg ggncccnana 900
aggggtnnng ggggngttt ttncctcctt accgccccag tgtgggtgga aaccccccn 960
gtgggggggg gncccaaaa tc 982

```

&lt;210&gt; 81

&lt;211&gt; 885

&lt;212&gt; DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 7, 320, 343, 346, 374, 385, 397, 402, 404, 405, 406, 415,  
417, 425, 430, 448, 449, 455, 468, 469, 480, 485, 501, 502,  
525, 540, 541, 542, 544, 545, 554, 564, 565, 573, 577, 578,  
580, 582, 587, 607, 608, 616, 620, 623, 635, 636, 644

<223> n = A,T,C or G

<221> misc\_feature

<222> 648, 656, 657, 665, 669, 673, 674, 683, 692, 693, 698, 713,  
715, 717, 718, 728, 730, 747, 752, 755, 756, 758, 759, 766,  
772, 773, 774, 779, 785, 790, 797, 801, 805, 807, 826, 831,  
843, 870

<223> n = A,T,C or G

<400> 81

```

accaatntat actcatcatt aataatcata atggctatag taataaaaact aggaatagcc 60
ccctttcact tctgagtcac agagggttacc caaggcaccc ctctgacatc cggcctgctt 120
cttctcacat gacaaaaaact agcccccatc tcaatcatat accaaatctc tccctcacta 180
aacgtaagcc ttctcctcac tctctcaate ttatccatca tagcaggcag ttgagggtga 240
ttaaaccaaa ccagctacg caaaatctta gcatactcct caattaccca cataggatga 300
ataatagcag gtctaccgtn caaccctaca taccattctt tanttnaact attaataataa 360
tcctaactac tacnggattc ctacnactca ccttaanctc cngnnnccag gacntncta 420
ctatntcggg acctgaaaca gggttaacnng actancacct ttaattcnnt cccctcctn 480
tctnagaag gctgccccg nntaacgggt ttttttgccc aaaanggggc ccattttttn 540
nnannaaatt tccnccaaaa aaanncaaaa tangccnntn anttatntcc cccccccctt 600
ttcatannng gccccnccan atnaccctcc tttcnnttta aaanccntt taaaannttt 660
ttaanccnt tancccccct tanaattttt annacttncc ccccccttta aantntnnac 720
cccttttnan ttccccccctt aattttntaa anccnnanng ggaaanagaa annnaaaang 780
ggcncggtg tttgganaaa ntatnanaaa aaaccccccc ccccntttt ntttttcccc 840
canaaaattt ttatgtgggg gccccttttn acccacgggg tttaa 885

```

<210> 82

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 10, 76, 458, 467

<223> n = A,T,C or G

<400> 82

```

ggcgggttttn gccggagctg cgggcgtagg gacctggcgg ttctgaagc gcacgcgggc 60
gggcggcagg tgtgcncggc atccctgtca cgtggccgaa gagcctgggg cgcgcgacc 120
ctggcagggg gcggggcgca cgcaggccac acccacttca ggctcccacc cggctcgctg 180
agaggggcca aggcctctgg aaggccaac ctggagggtg gttcaaagg gtgttgggca 240
ccctcaaatt aggggaaaat tggggagtag gctctccttc ccagggttg aggttactac 300
aatcataagc ggggagccgg tgccctgag gaaggagacc ctgagggaga taagatggag 360
gggctcggga ttccggggag ccccaagtc cagcttgaaa cgggtggagtc cgggcaaagt 420
agctctgagg acggcttctg ggcctggccg tgaccanag tgcagtnag aag 473

```

<210> 83  
 <211> 705  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 9, 37, 38, 43, 655, 688, 702  
 <223> n = A,T,C or G

<400> 83  
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 gtttcctggg gctgccgccc acttcggtgg acccagcgct gaggcggcgg cggcgaggcc 120  
 caagaaataa gaagcggggc tggcggcggc ttgctcagga gccgctgggg ctggagggtg 180  
 accagttcct ggaagacgtg cggctacagg agcgcacgag cggtggttgg ttgtcagagg 240  
 ccccaaataa aaaactcttc ttcgtggaca ctggctccaa ggaaaaaggg ctgacaaaga 300  
 agagaaccaa agtccagaag aagtcactgc ttctcaagaa accccttcgg gttgacctca 360  
 tcttcgagaa cacatccaaa gtccctgccc ccaaagacgt cctcgccac cagggtcccca 420  
 acgccaagaa gctcaggcgg aaggagcagc tatgggagaa gctggccaag caggggcagc 480  
 tgccccggga ggtgcgcagg gcccaggccc ggctcctcaa cccttctgca acaaggggcca 540  
 agccccgggc cccaggacac cgtagagcgg cccttctacg acctctgggc ctacagacaac 600  
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 aaggagtga acggccagca cgctgcnc caaagccccg tncca 705

<210> 84  
 <211> 587  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 10, 33, 40, 59, 65, 66, 67, 80, 83, 84, 96, 101, 103, 107,  
 113, 131, 143, 147, 163, 170, 171, 180, 182, 286, 560, 581  
 <223> n = A,T,C or G

<400> 84  
 gtgggattcn cggtagcggg tcgacagaaa atnttaggan ttattacaaa gtgaagccna 60  
 cgagnnnttg gattttgaan cgnngacccc ccaccnaaga ntntantct atnaccttt 120  
 gagctggaag natccgaaag gcnttcntgt tgagacttta ganactgaan ntaaggatcn 180  
 anatatatca tatccccaag tggaatgaag aagaacgcaa aagaagagag cagcagaaac 240  
 atgccaaaaga acaggaggag ctgaatgatg ctgtgggatt ttctanagtc attcacgcc 300  
 ttgctaattc gggaaaactt gttattggac acaatatgct cttggacgtc atgcacacag 360  
 ttcacagatt ctaactgccct ctgcctgcgg acttaagtga gtttaaagag atgacaacat 420  
 gtgttttccc cagactcttg gatactaaat tgatggccag cacacaacct tttaaggata 480  
 tcattaacaa cacatccctt gcgggaattg gaaaagcggg taaaaggaga cccctttca 540  
 acccttctaa agttgaaagn ggccgaaagg ttttccaagg nattgac 587

<210> 85  
 <211> 620  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> 252, 499, 536, 540, 563, 564, 567, 581, 614

<223> n = A,T,C or G

<400> 85

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ggaaaccctg	cccacactat	gctcttaggc	tttagccatc	agaaggttac	agtggactgc	120
gggaggctga	cactaggctg	aactcattaa	ggaatgaatg	ggaggtgaga	agacacaggc	180
agcaagaatc	gagtgtttca	agaagttttg	ctctggtttg	ccagaaatag	gcaagtcagt	240
tttcgggggt	gngaggaaaa	agggttttgt	gtctttttta	aatcctagac	aggagagtca	300
caagcatggt	cacatgataa	agaggaagaa	agagaaagag	gctggagatt	ctgaaaagag	360
atcactgggt	aggtctcaaa	agagatggaa	gaggatgggt	atgtagttgg	ggaaagaaat	420
tttaagaagg	gaagaaaatt	aaaatgagtg	aaggtatacg	ttagttttgt	aaaagttatc	480
aatatctggc	tgggcacant	gctcacacct	gtaatcccag	cactttggga	ggccanggn	540
ggcagatcat	ttgaggtcag	ganntgnaga	caagcctcca	ncatggtaaa	accctgtctc	600
tactaaaaat	accnaaaatt					620